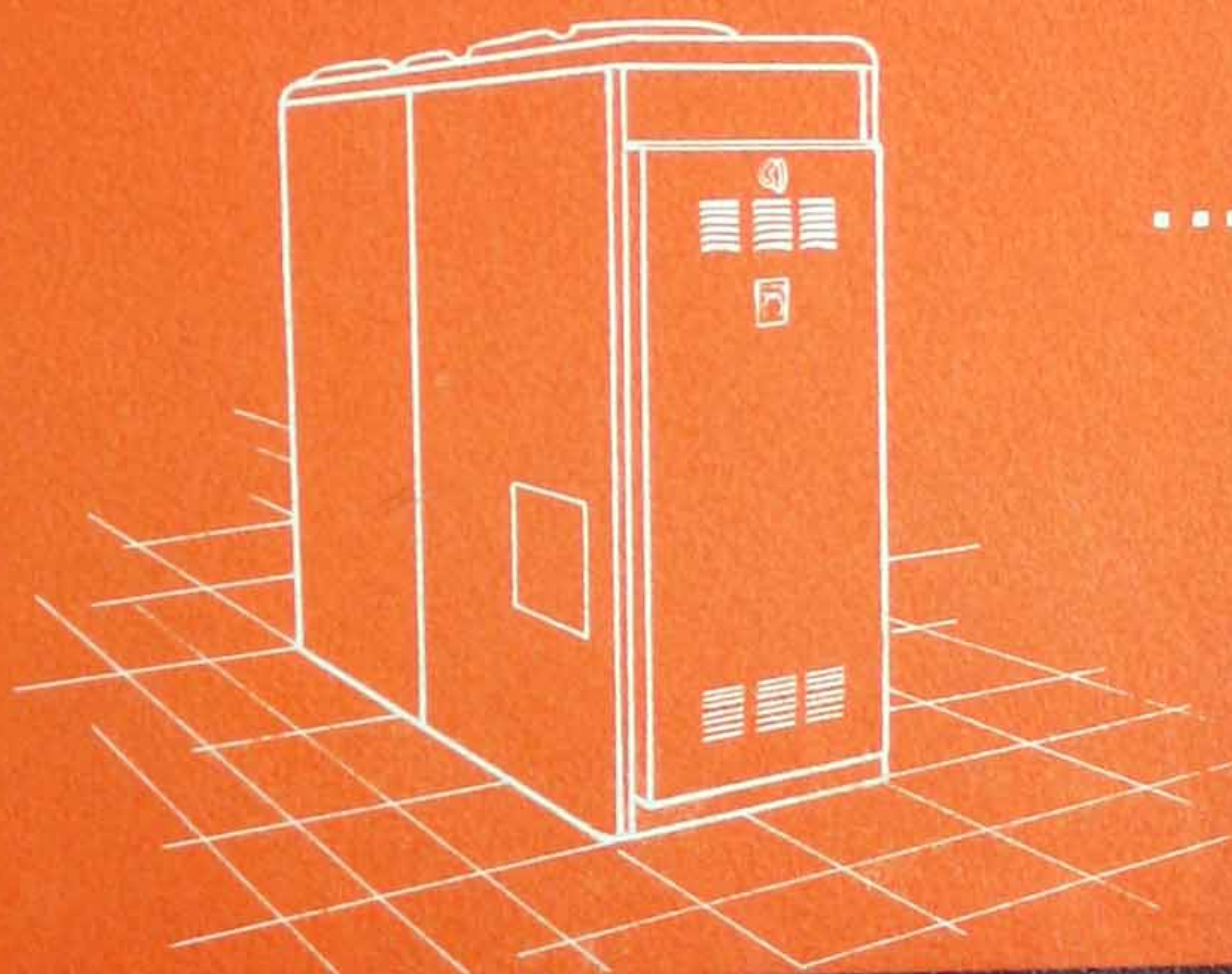


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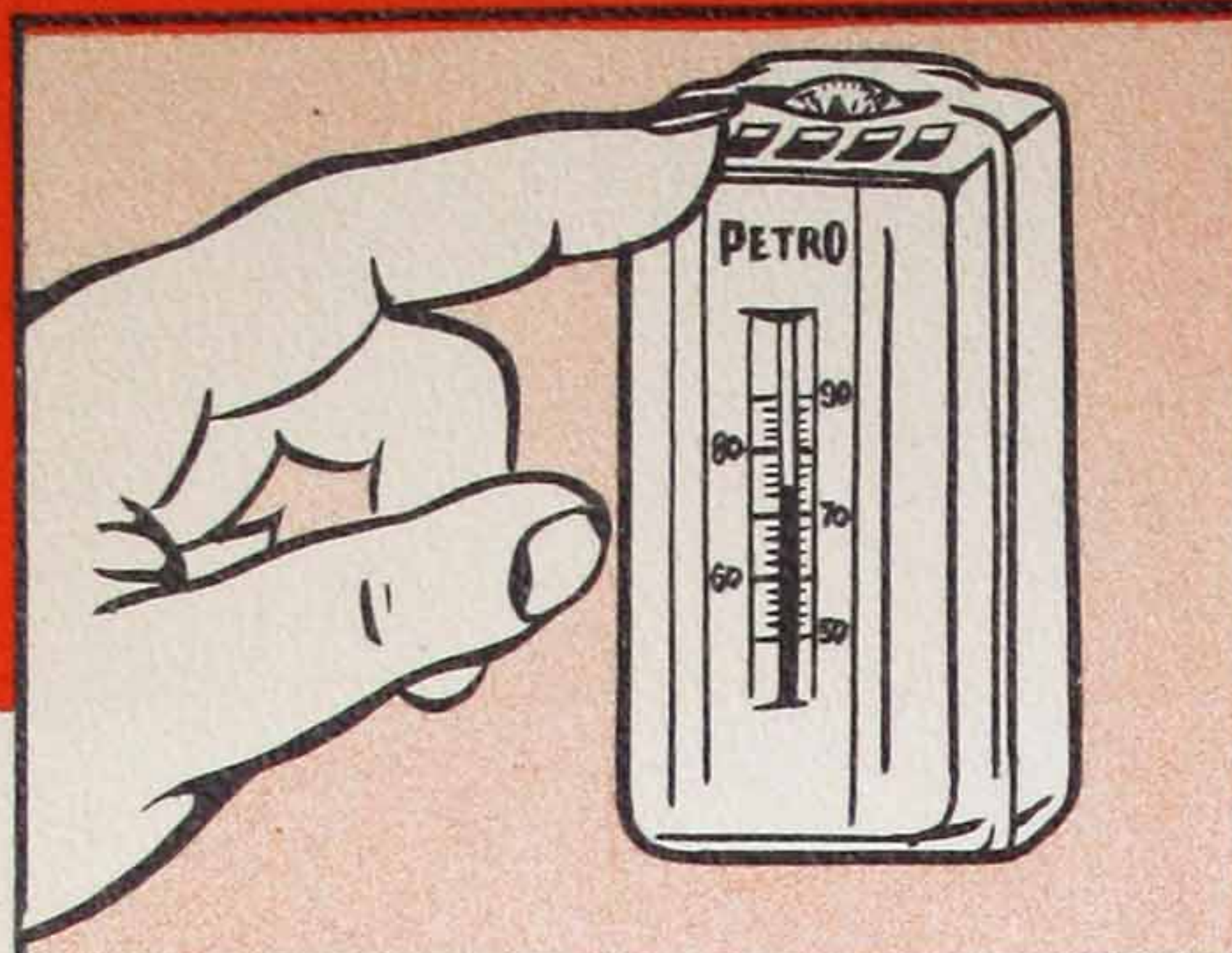
Warm Air Units

SERIES "A"

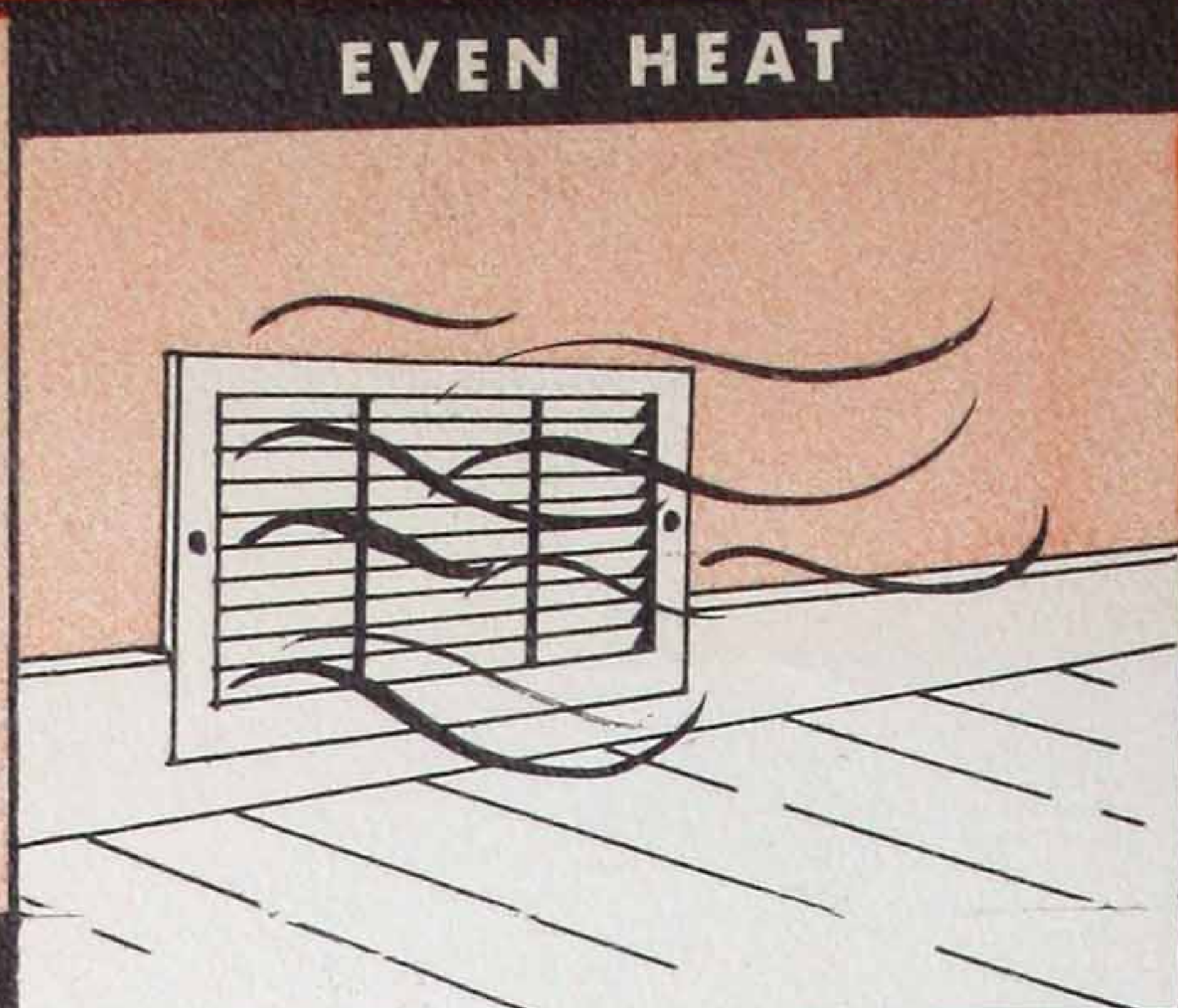


...the **PETROLEUM HEAT
AND POWER COMPANY**
STAMFORD, CONNECTICUT

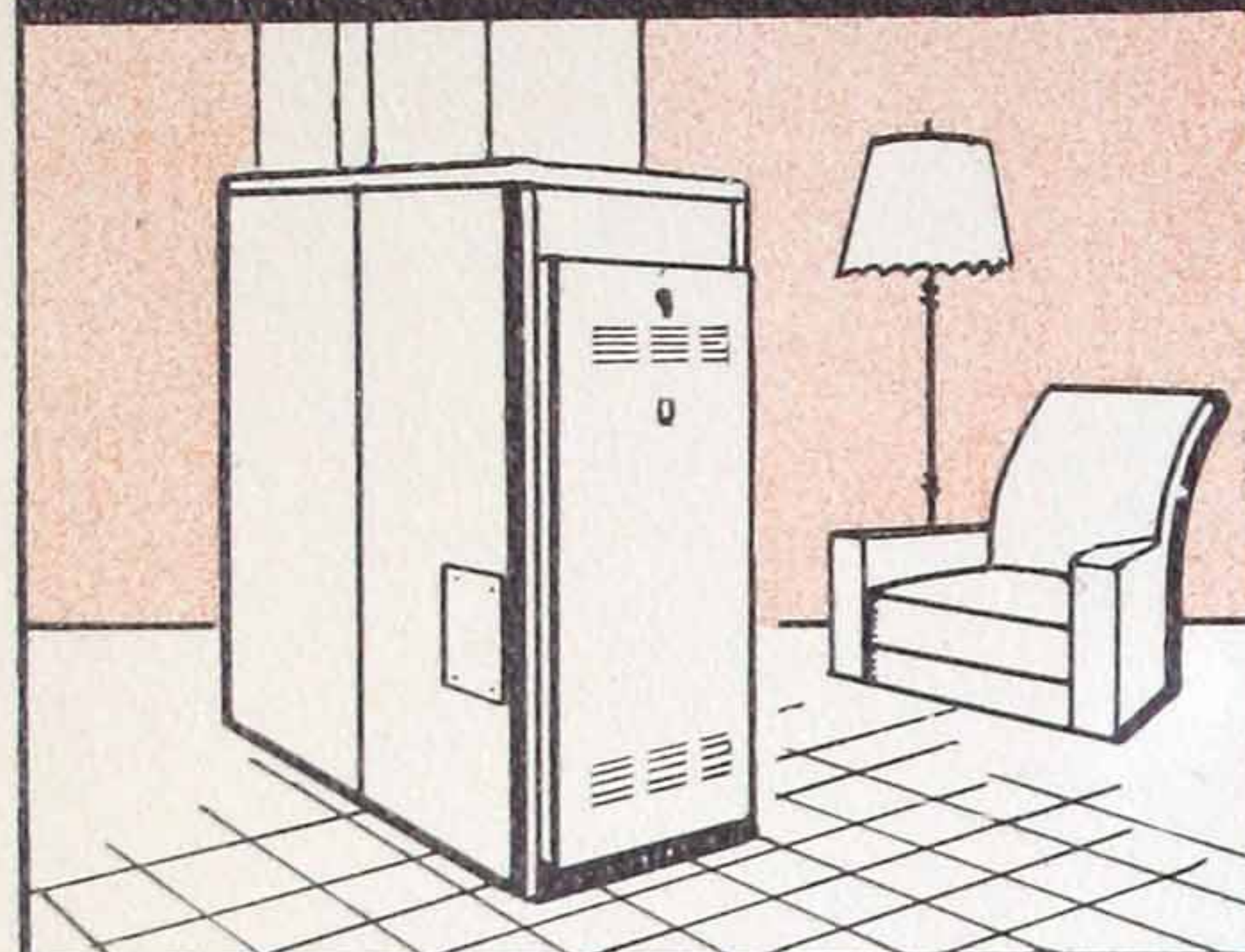
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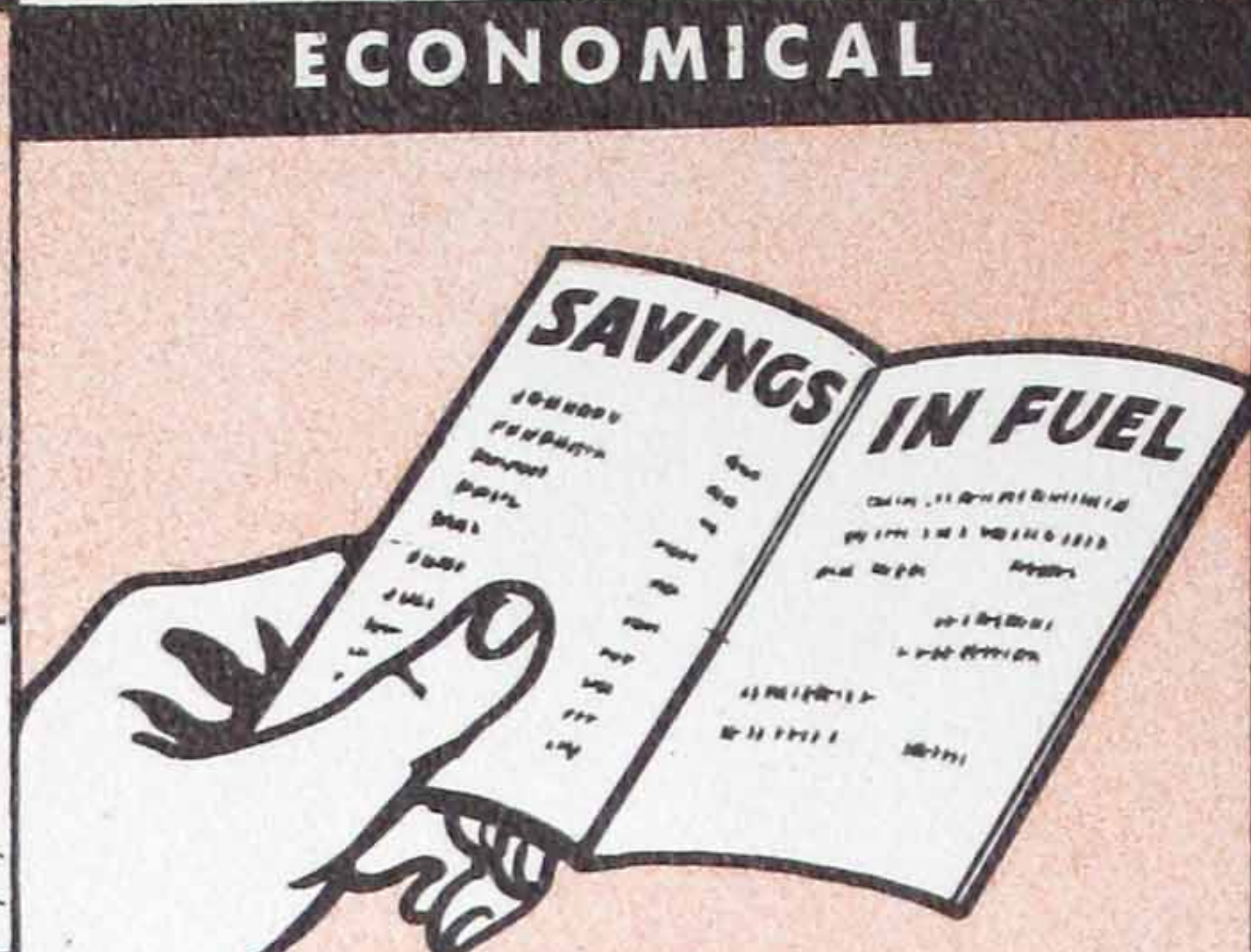
100% AUTOMATIC



EVEN HEAT



A PROUD ADDITION



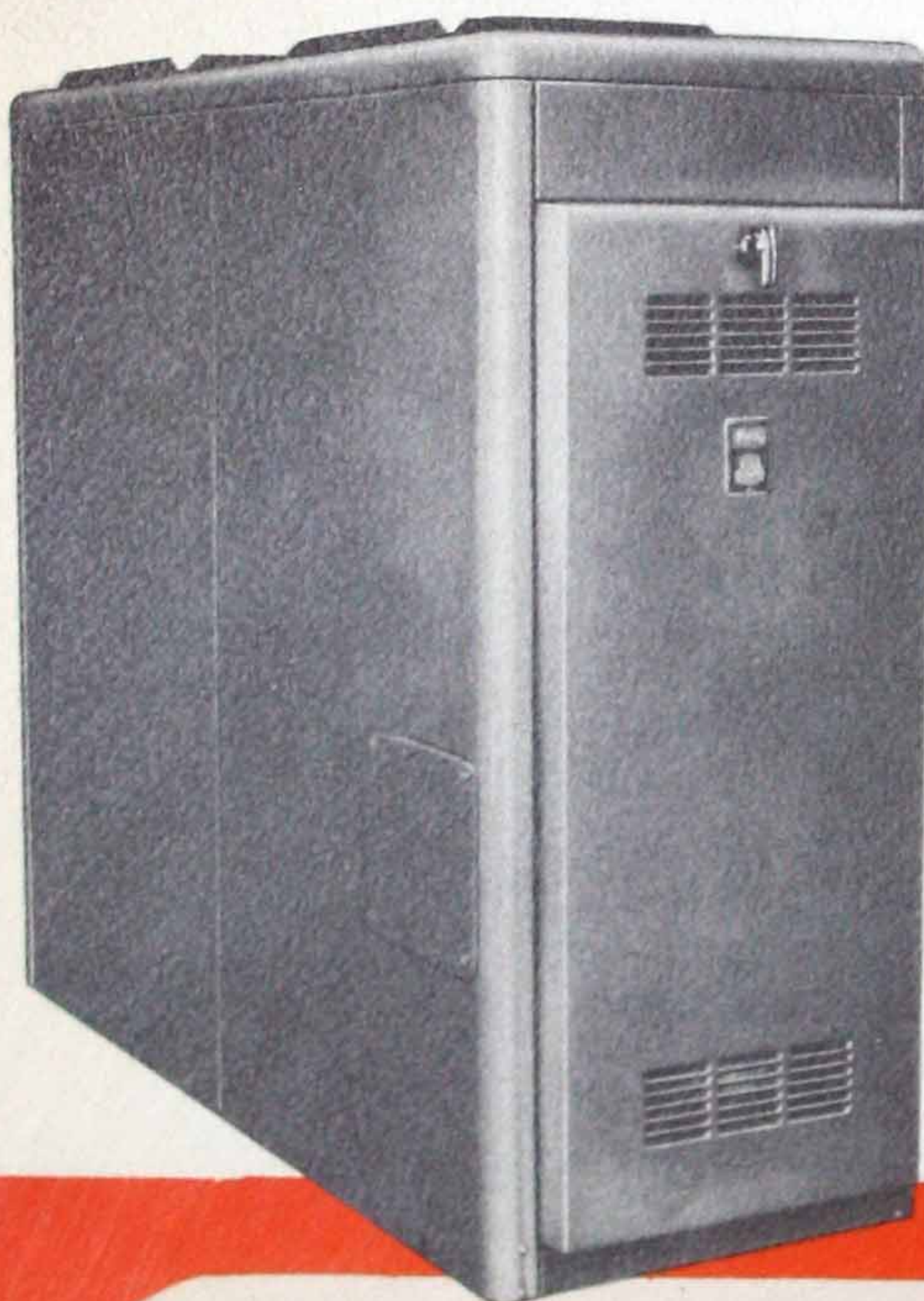
ECONOMICAL

Four

Petro's wide margin of leadership in oil heating design is clearly reflected in the compact construction and spartan performance of its Series "A". It gives you 4 better ways to enjoy heating.

Let's review . . . (1) . . . 100% automatic 'round the clock . . . your only effort is fingertip choice of whatever temperature you choose, *when you choose it* . . . (2) . . . to each room register it delivers an abundance of clean, filtered, even flow of warm air . . . (3) . . . makes a proud addition to your home — your choice is Petro can well be the envy of the neighborhood . . . (4) . . . of great importance are the resultant savings in *dollars and cents* benefited from the overall performance, year-in — year-out, of the Petro Series "A".

ECONOMICAL AUTOMATIC UNIT, PETRO ENGINEERED FOR WIDE RANGE OF HEAT CAPACITY ASSURES DEPENDABLY LOW FUEL COST . . . WITH EFFICIENT HIGH



The Petro Series "A" winter air conditioner adds new advantages to old, proven quality standards. It is "new" in high heat capacity, low oil consumption, and modern design. It is old and reliable in principle, quality, and long economical life.

FOR MODERN HOMES, many local stores, churches, schools — even smaller theaters and various other buildings of like nature — there are three sizes of the Petro Series "A" conditioner. This unit will supply all the heat needed when it's needed — in exact proportion to the actual need — thus saving fuel and labor dollars.

AUTOMATIC — it never burns more than the exact amount of oil required to keep the rooms cozy, and only burns that much when heat is called for.

ECONOMICAL: Whether your "furnace output" requirement is 75,000, 95,000 or 115,000 B.T.U. per hour, the oil rating of the special Petro burner exactly matches the heat

demand at the register. It has static control, the best of its kind, and the oil economy is

EFFICIENT DESIGN — indicates how well it is designed for quick access to oil and with all wire connections in duty, radio shielded and code motor with ball flange; special design (further amplified) positive lock air admission and dependable construction.

FAST HEAT TRANSFER — flame heat efficiently and As the adjacent "cut" to the heating unit t

PETRO

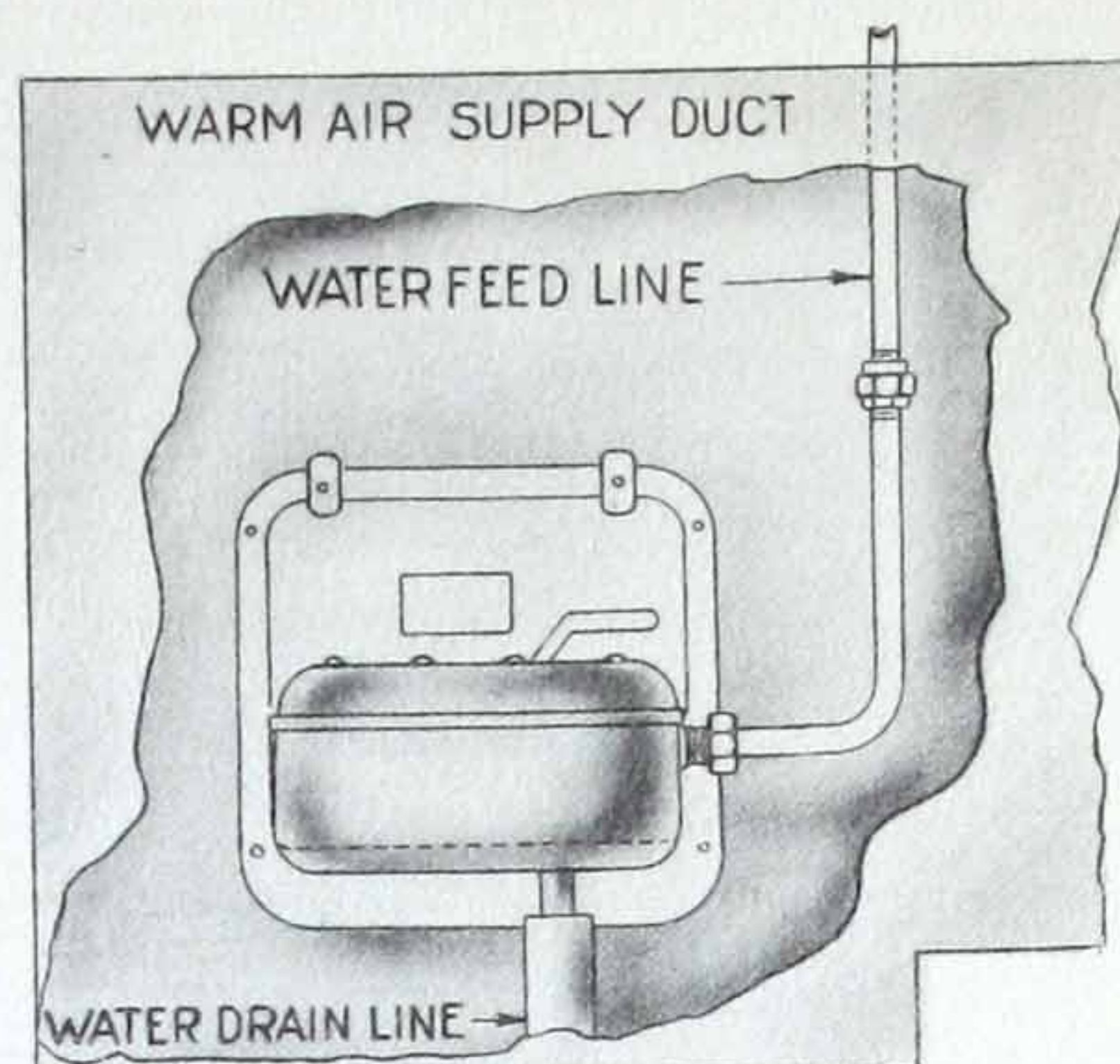
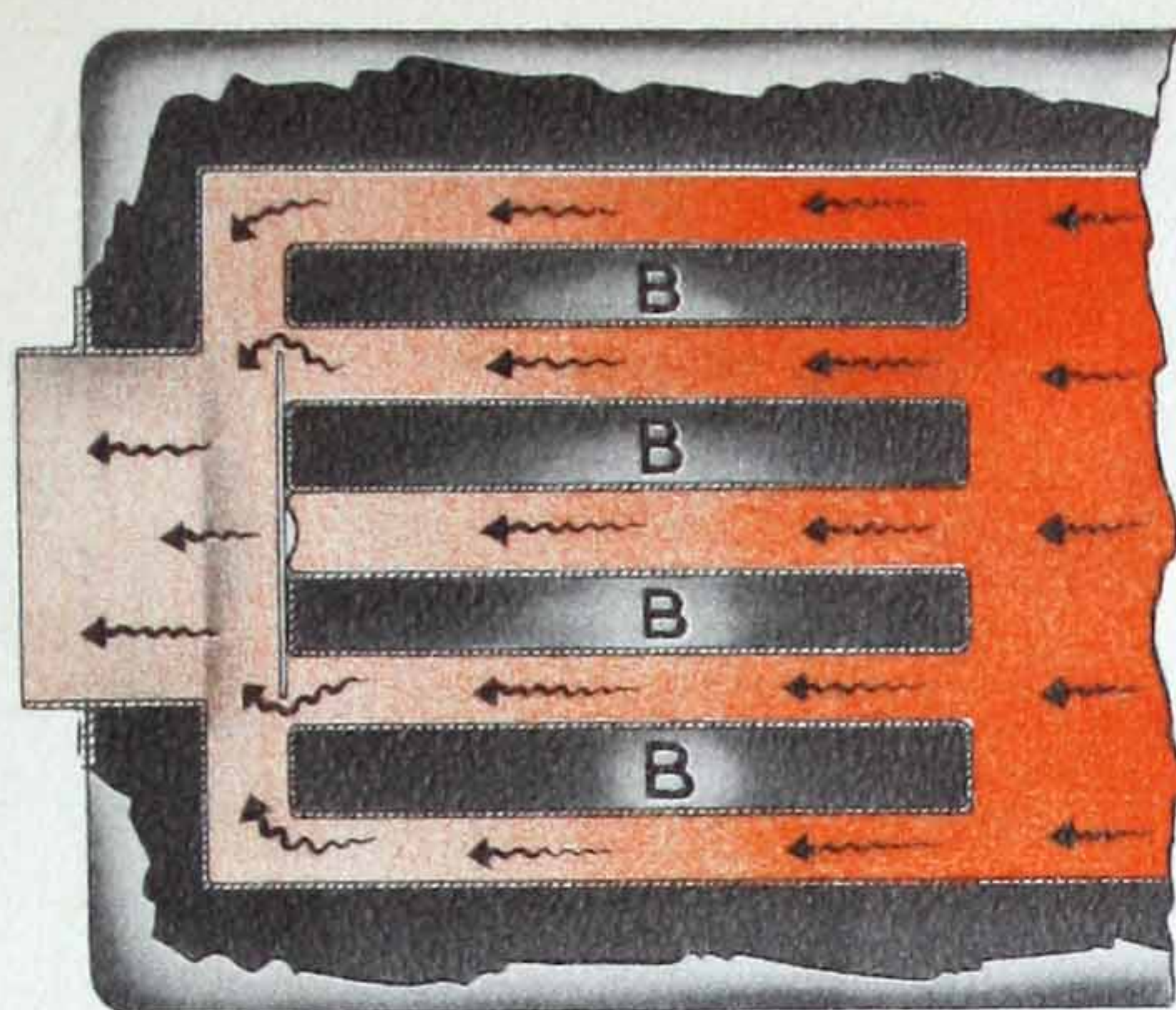
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for Better Homes

Better Ways for Better Heating

House air (white arrows) enters the unit at Cold Air Intake Chamber A; travels through preheater, or radiator (see radiator drawing), thence through filters C into plenum chamber D. Blower, motivated by motor D-1, forces air around furnace or "generator" G to plenum chamber, or supply duct F to system.

G identifies combustion chamber, from which hot gases (dark arrows) travel up thru flue passes of preheater B to preheat incoming air. H indicates observation door.



Humidifier is installed on exterior of warm air duct (not supplied by manufacturer). Drain line runs outside jacket of unit.

APPLICATION, AT CAPACITY.

ally, under automatic, thermo-erates only part of any hour, 7 seen.

he outside of a Petro burner eered inside. Such features as: on lines; electric supply outlet ected inside; continuous heavy ner; long hour duty, N.E.M.A. afety release; heavy mounting ular Atomizing" firing head page); sturdy oil pump; and — all typify the sturdy, de-etro oil burning equipment.

The furnace "exchanges" the elivers every bit of useful heat. hoto shows, the cool air returns passages which warm it; thence



Heating

AN X-RAY'D VIEW OF MODEL A-75



PETRO

SERIES "A"

through dust filters; and then circulates all around the hottest part of the furnace. This rapid, economical heat exchange is helped by the blower and motor ("D" and "D-1" respectively).

MATCHED COMPONENTS: Good heating is further assured by the furnace itself, its combustion chamber, air moving capacity, and insulation and jacketing. The combustion chamber — or "fire-box" — in which the flame is generated in the Series "A", is specially designed to the exact size and shape to burn every drop of oil.

CONTROLLED CIRCULATION: The amount of air in motion, and speed of motion, are important to heating cost and personal comfort. Too much air movement wastes useful heat, and causes disagreeable drafts in the rooms. Air moving too slowly makes the burner operate too long before the room temperature is satisfactory. In the Petro Series "A" there is no waste of fuel, no waiting for heat, no drafts nor wide variations in temperature.

TUBULAR ATOMIZATION is a trade-marked name for a finer oil spray produced by nozzles designed by, and used exclusively by Petro. Patented design whirls oil at high velocity in nozzle's swirl chamber, thence through the orifice in such a manner as to produce a hollow cone spray. This

"tubular atomization" uses half as much fuel oil as a nozzle of the same size orifice projecting a solid jet.

AUTOMATIC HUMIDIFICATION is provided as standard equipment because most buyers demand it, but Series "A" units may be ordered without it if so desired.

UTILITY WITH BEAUTY: Finally, the whole unit is enclosed by a smart "furniture finished" steel jacket with real utility as well as beauty. It is well insulated to keep the heat where it is wanted — in the rooms of the building — instead of wasting heat through radiation around the unit. The Petro Series "A" insures that every dollar's worth of fuel oil is turned into the utmost useful heat.

BACKED WITH RESPONSIBILITY: All of these facts can be validated by any heating contractor who knows Petro equipment and the organization that produces it. To these men the Petro label represents more than 45 years of specialized experience in oil heating; and they know that every Petro product is refined, tested, and proved before the public has any contact with it. Add to this the fact that more heating contractors throughout the country sell and install more Petro equipment than any other, and you have the best possible reasons for selecting Petro.

S P E C I F I C A T I O N S

Petro Series "A" Winter Air Conditioners include specially designed, pressure atomizing Petro oil burners, listed by Underwriters' Laboratories, and meeting (in many points exceeding) the detailed standard in Bulletin C.S. 75-42 of the Bureau of Standards, Department of Commerce. Using No. 2 or lighter fuel oils, these burners have constant electric ignition for safe, reliable operation, heavy duty, long hour type 110V A.C. motors with automatic overload safety switch; and transformers built to highest Petro specifications and N.E.M.A. standards, over-sized, radio-shielded, moisture-proof, and extremely long-lived.

Unit	A-75	A-95	A-115
B.T.U./hr. at Register*	75,000	95,000	115,000
B.T.U./hr. at Bonnet	82,500	110,000	133,000
Nozzle Size	.75	1.10	1.25
CFM 100° Rise .12" Water Pressure	750	1,000	1,200
Blower Motor H.P.	1/6	1/3	1/3
Air Filters — No. and Size	2-15 x 20	2-15 x 20	2-15 x 20 2-10 x 20
Plenum Connection	18 x 18	18 x 18	22 x 22
Length of Unit	59	59	68
Width of Unit	22	22	26
Height of Unit	52-9/16	52-9/16	55
Smoke Pipe Diameter	8	8	8

*Register rating is on basis of average duct losses.
Location of unit should allow at least 24" clearance at both ends for access to burner and air filters.

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Manufactured By
PETROLEUM HEAT & POWER CO.
STAMFORD — CONN.